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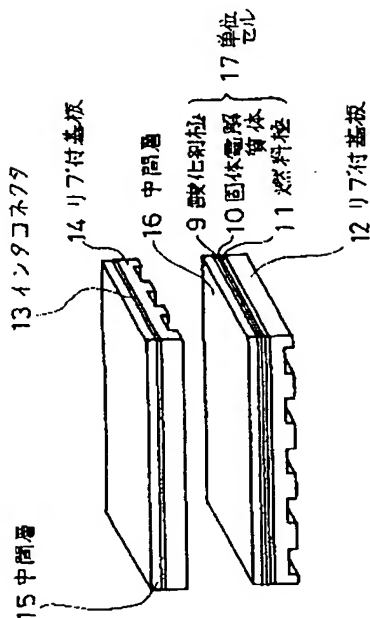
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APPLICANT : FUJI ELECTRIC CO LTD;

INVENTOR : KOSEKI KAZUO;

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TITLE : SOLID ELECTROLYTE TYPE FUEL
CELL



ABSTRACT : PURPOSE: To easily deform a contact face via fastening and decrease internal resistance by providing a porous intermediate layer between a ribbed substrate supporting a unit cell and a ribbed substrate supporting an inter-connector.

CONSTITUTION: A unit cell 17 constituted on an oxidizer electrode 9, a solid electrolyte body 10 and a fuel electrode 11 is laminated on a ribbed substrate 12 made of Zi-ZrO_2 cermet, and an intermediate layer 16 made of LaMnO_3 with the porosity 80% is provided on it. An inter-connector 13 made of a LaCrO_3 and an intermediate layer 15 made of NiO with the porosity 80% are provided on a ribbed substrate 14 made of LaMnO_3 . The intermediate layer 16 is porous and rib tips of the substrate 14 are acute, thus they are easily collapsed at the time of assembling a battery, contact resistance is decreased, and internal resistance is reduced.

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